

36th EXHIBITION

Located in Hall C of the Anaheim Convention Center

EXHIBIT HOURS AND EVENTS

MONDAY, FEBRUARY 28 Exhibit Hours: 11:00 a.m. to 7:00 p.m.

Exhibit Opening Reception and Poster Session I: 5:30 p.m. to 7:00 p.m.

TUESDAY, MARCH 1 Exhibit Hours: 11:00 a.m. to 7:00 p.m.

Exhibit Hall Happy Hour and Poster Session II: 5:30 p.m. to 7:00 p.m.

WEDNESDAY, MARCH 2 Exhibit Hours: 10:00 a.m. to 2:00 p.m.

View the Bladesmithing Competition Display Daily in the Exhibit Hall

View the most up-to-date list on the TMS2022 Mobile App

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ABB, Inc.

Booth #409

ABB offers a complete range of analytical solutions to the aluminum industry: AlSCAN[™] hydrogen analyzer, LiMCA inclusion analyzer, Prefil®-Footprinter melt cleanliness analyzer, PoDFA inclusion identification and quantification analysis, as well as electromagnetic stirring solutions.

AdValue Technology, LLC

Booth #708

AdValue Technology specializes in areas of Alumina, Fused Quartz, Sapphire and Zirconia. Products vary from Crucibles, Tubes & Rods, Plates & Discs, DTA & DSC Sample Pans, Ceramic Membranes to custom components. Laser machining and metallization are available. We also sell high purity powders including Alumina Powders, Quartz Sands, TeO2 Powders, and CeO2 Polishing Powders.

Advanced Optical Technologies

Booth #719

Advanced Optical Technologies (AOT) offers multidimensional material characterization for a more complete understanding of complex materials and devices and develops custom sensors for defense and commercial customers. With CrystalView CPCI, Advanced Optical Technologies (AOT) introduces a new type of microscope for non-destructive crystallographic orientation measurements.

Alemnis AG

Booth #722

Alemnis develops and manufactures state-of-theart instruments for in-situ and ex-situ testing of materials mechanical properties at small scales, e.g., nanoindentation, micropillar compression, cantilever bending, tensile testing, ultra high strain rate, high and low temperature, fatigue, fracture, impact, etc.

ALMEX USA, Inc.

Booth #617

Almex USA is the leading supplier of aerospace and commercial aluminum billet and slab casting technology and equipment. The company specializes in complete turnkey "Furnace to Finish[™]" aluminum casthouse solutions. The wellrounded product line includes melting furnaces, degassing systems, DC casting machines, billet/slab casting systems, automation and homogenization systems.

ASTM International

The ASTM International Additive Manufacturing Center of Excellence (AM CoE) is a collaborative partnership among ASTM and representatives from government, academia, and industry that conducts strategic R&D to advance AM standards, and is a leading provider of education, training, proficiency testing, certification, and advisory services globally.

Boise State University

Booth #631

Booth #504

The Microscopy and Characterization Suite (MaCS) is a state-of-the-art materials characterization laboratory that provides cross-cutting capabilities that support the Center for Advanced Energy Studies' (CAES) mission in multiple initiative areas. MaCS is managed by Boise State University and is largely made possible through its partnership with the Nuclear Science User Facilities (NSUF). MaCS is specially designed to handle both radiological and non-radiological materials and provides state-ofthe-art characterization facilities.

Bruker

Booth #508

Booth #702

Booth #502

Bruker's industry-leading technologies include Micro-XRF, UMT mechanical testers, and Hysitron nanomechanical test instruments. From investigating friction and wear to nanoscale materials characterization and elemental analysis, Bruker offers advanced solutions to help you appreciate and develop innovative materials at the macro- and nano-scale.

California Nanotechnologies

California Nanotechnologies offers an array of facilities including advanced consolidation techniques (Spark Plasma Sintering), cryogenic milling, and machining tools. R&D and pilot-scale production services are performed by Cal Nano for both in-house programs and customer-funded projects. Programs range from Space, Aerospace, Nuclear, and Sports & Recreation industries.

Cameca

Since 1929, CAMECA has been renowned for its precision mechanics, optics, and electronic. CAMECA provides scientific instrumentation to the international research community and in-fab/nearfab metrology solutions for the semiconductor manufacturing industry. CAMECA is a business unit of AMETEK, Inc., a leading global provider of electronic instruments and electromechanical devices.

Carl Zeiss Microscopy, LLC

Booth #603

ZEISS microscopy is the world's only manufacturer of light, electron, ion, and X-ray microscope systems to address challenges in materials characterization and inspection. From 2D to 3D and even 4D (through time) analysis, ZEISS microscopes offer the modalities and dimensions needed to fully investigate your material microstructures.

Claudius Peters Projects GmbH Booth #408

Claudius Peters Projects GmbH is headquartered in Buxtehude, Hamburg with regional offices in the Americas, Europe, China and the Far East. Claudius Peters stockyards, pneumatic conveyors, silos, clinker coolers, grinding mills, and packing systems can be found in Cement, Coal, Alumina, and Gypsum plants across the globe.

DT Equipment

Booth #616

DT Equipment's product range includes a fully automatic Element Analyzer which delivers realtime information on trace elements in liquid aluminum. With proprietary improvements over standard LIBS technology, we can deliver frequent real-time process information, rivaling laboratory accuracy, without any operator involvement towards process automation and Industry 4.0.

EBSD Analytical

Booth #611

EBSD Analytical provides microstructural analysis services through EBSD and EDS coupled with the SEM. The owner, Ron Witt, has been involved with EBSD since 1996, having worked for both TSL and EDAX/Ametek before founding EBSD Analytical in 2003. With over 23 years' experience, let us show you how materials characterization with EBSD can help improve your processes.

EDAX

Booth #612

EDAX is the global leader in Energy Dispersive Spectroscopy (EDS), Electron Backscatter Diffraction (EBSD), Wavelength Dispersive Spectrometry (WDS), and X-ray Fluorescence (XRF) systems. EDAX manufactures, markets, and services high-quality products and systems for leading companies in semiconductors, metals, and geological, biological, material, and ceramics markets.

FemtoTools AG

FemtoTools is a manufacturer of high-resolution nanoindenters for applications in metallurgy and thin films.

FormAlloy

Headquartered in San Diego, CA, FormAlloy is an additive manufacturing technology company that is principally engaged in the design, R&D, manufacture, and integration of metal deposition systems. FormAlloy's award-winning metal AM technology provides an innovative, cost-effective solution to form, enhance, and repair 3D metal parts in a diverse set of industries.

GLAMA

GLAMA, founded in 1961, is mainly building heavyduty equipment for aluminium pot rooms, cast houses, and anode rodding shops throughout the world. Extract of our range of products: Anode Changing Vehicles; Anode Pallet Transporters; Butt Cleaning Manipulators; Furnace Charging Machines; Furnace Tending Machines; Ladle Charging Trucks; Molten Metal Carriers; Tapping Trucks.

Haarslev Industries Press Technology GmbH + Co.Kg

Booth #406

Booth #503

Booth #522

Booth #402

The world leader for most efficient wear protection materials. We supply optimized wear and spare parts for Anode Paste mixers at economical prices with longer life times than any other supplier to this industry. Furthermore we provide services and process support for anode paste preparation. All of our parts for the Aluminium Industry are manufactured in Germany.

Hycast AS

Booth #712

Hycast AS has expertise within aluminium casthouse technology and core competencies within project management, engineering and process know-how. Hycast AS has extensive experience and know-how gained from numerous projects world-wide. The main products are Billet and Slab Casting technology, Melt refining, Rod Feeders and Launders integrated into a fully automated process.

2022 EXHIBIT DIRECTORY

Keyence Corporation of America

Booth #403

KEYENCE's advanced microscope and measurement systems offer high-resolution imaging, ISO-certified roughness, and 2D/3D measurement coupled with easy-to-use interfaces for an elevated inspection experience. KEYENCE offers a full range of services: free demos and sample testing, training, after sale support, and short lead times.

KLA Corporation

Booth #516

We provide advanced process control solutions for manufacturing wafers and reticles, integrated circuits and packaging. In close collaboration with leading customers across the globe, our expert teams of physicists, engineers, data scientists, and problem-solvers design solutions that move the world forward.

Leica Microsystems

Booth #623

Leica Microsystems develops and manufactures microscopes and scientific instruments for the analysis of microstructures and nanostructures. Widely recognized for optical precision and innovative technology, the company is one of the market leaders in compound and stereo microscopy, digital microscopy, confocal laser scanning, and super-resolution microscopy.

Light Metal Age

Booth #519

Light Metal Age magazine has a long legacy in the aluminum industry with 75 years of experience covering primary and secondary production, extrusion, and rolling. We provide vital technical, industrial, and market information to aluminum producers and processors around the world. Aluminum in automotive, aerospace, and building and construction, are also major topics.

Materials Square, Inc.

Booth #433

Materials Square is a material simulation web platform. Through the material simulation R&D environment provided as SaaS, you can perform the whole process of simulation from material modeling to result analysis on the web without additional server construction, maintenance and software installation. Also, you get the fastest simulation data with cloud servers.

Metglas, Inc.

Booth #419

MTI Corporation

MTI Corporation has been providing a total solution for materials research labs since 1995. MTI supplies ceramic, crystal, metallic substrates from A-Z and Nano-powder. MTI also provides laboratory R&D equipment including alloy melting, casting, annealing, sectioning, polishing, mixing machines, high temperature muffle and tube furnaces, pressing machines, film coaters, high vacuum systems, high pressure furnaces, RTP furnaces, hydrogen furnaces, as well as compact XRD/XRF for Metallographic analysis and the Amorphous Metallic Material Research Equipment.

Netzsch Instruments NA LLC

Booth #512

Booth #509

NETZSCH Instruments offers highly sensitive, versatile, and reliable thermal analysis instrumentation for R&D, quality control, process safety, and failure analysis. Our instruments and methods allow for material characterization and the study of properties including Cp, enthalpy, weight change, Young's modulus, conductivity, diffusivity, and evolved gas analysis.

Psylotech Inc

Booth #718

Psylotech designs and builds precision multi-scale micromechanical testing systems for the global stage. We provide the research community with tools to help better test new materials in static and fatigue that ultimately provide backbone for modeling data that supports product development. Psylotech is based in Evanston, Illinois, USA.

REL, Inc.

Sente Software Ltd.

Booth #709

Booth #707

Developers of JMatPro®, a powerful simulation software package for calculating a wide range of materials properties and behavior for multicomponent alloys used in industrial practice. Data exports are available to casting, forming, forging and heat treatment packages. Sente Software has a proven track record for innovation and excellence with customers worldwide.

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Sistem Teknik Industrial Furnaces Ltd.

Booth #422

Designing and producing industrial furnaces since 1979, Sistem Teknik uses state-of-the-art technology that is fully integrated to industry 4.0 thermal processing applications. Being one of Europe's largest turn-key solution providers for heat treatment, Sistem Teknik responds to a wide range of demands related to aluminum, brass, and composite metals.

TA Instruments

Booth #719

Visit TA Instruments for premier technology in thermal analysis and thermophysical testing. Innovative instrumentation for materials characterization of polymers, metals, ceramics, and more. Unmatched performance from our Discovery Series DSC, TGA, and SDT and industry leading instruments for Thermal Conductivity, Dilatometry, and Thermal Diffusivity by Flash up to 2800°C.

Tekna

Booth #627

Tenova Inc.

Booth #517

Tenova Inc., is a worldwide leader in the design and supply of loose carbonaceous material calciners based on rotary hearth technology. These furnaces are used for the processing of petroleum coke, coal, formed coke briquettes, and various other carbon-based products. We also provide aluminum processing furnaces for a variety of applications as well as technical services.

TESCAN

Booth #526

TESCAN develops state-of-the-art SEMs, FIB-SEMs, and micro-CTs that are capable of providing valuable insights into a broad range of scientific disciplines. TESCAN systems can image with both high resolution and high contrast and are extremely versatile. From materials to geology, our instruments help unlock the secrets of "How" and "Why."

Tethon 3D

Booth #413

Tethon 3D manufactures ceramic powders and UV curable resins for additive manufacturing and sells the Bison 1000 ceramic 3d printer, the world's only desktop DLP printer designed for ceramics and metals.

Thermo-Calc Software Inc.

Leading developer of software for computational thermodynamics and diffusion controlled simulations. Thermo-Calc: thermodynamic and phase equilibria calculations for multicomponent systems. DICTRA: predicting diffusion in multicomponent alloys. TC-PRISMA: simulations of precipitation kinetics. Databases for steels, Ti, Al-, Mg-, HEAs, Ni-superalloys, and other materials.

Thermo Fisher Scientific

Innovative materials hold the key to improving safety, fuel efficiency, and productivity. Thermo Fisher Scientific supplies innovative solutions for materials science research, combining SEMs, TEMs, DualBeam[™] FIB-SEMs and micro CT with advanced software suites to take customers from data to understanding.

Trefimet S.A.

Trefimet is a Chilean company manufacturing advanced thermal lances. Thanks to new and revolutionary designs, our thermal lances can be used on steel and smelting plants on countless operations. With improved power and accuracy, Trefimet lances will extend equipment life span, making them the right choice to perform tapping and cleaning operations.

UES, Inc.

Robo-Met.3D is a fully automated serial sectioning system for three-dimensional microstructural investigations. The system enables metallographic etching and imaging of the microstructure of materials. Post-processing reassembles these 2D images, gathered over an optical scale, into 3D models.

Wagstaff, Inc.

Booth #608

Booth #524

Custom Aluminum DC Casting Systems from Wagstaff. Wagstaff, Inc. is a 73-year-old industrial manufacturing and engineering company that provides customized, advanced aluminum directchill (DC) solidification technology to rolling ingot and extrusion billet producers worldwide. Wagstaff's headquarters are located in Spokane, Washington, USA.

TMS2022 CONFERENCE GUIDE

2022 EXHIBIT DIRECTORY

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